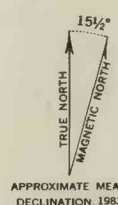


Base from H. W. Oliver (written commun., 1978) with additions and modifications from the sheet of the Geologic Map of California listed in the geologic credit note.



0 5 10 15 20 25 30 MILES
0 10 20 30 40 KILOMETERS



Geology adapted from Bakerfield, Fresno, Mariposa, Sacramento, San Jose, and Walker Lake sheets of the Geologic Map of California (Koenig, 1962; Smith, 1964; Matthews and Burnett, 1965; Strand and Koenig, 1965; Stow, 1967), with modifications from investigators listed in tables 1 and 2. Radiometric ages from Kistler (1966a), Morgan (1976), Brook (1977), Morgan and Stem (1977), Peck and others (1977), Fiske and Tubach (1978), Saleeby and others (1978), Chen and Moore (1978), Moore and others (1978), Busby Spore and others (1981), Nabelek (1981), Nabelek and Kistler (1981), and Saleeby and Sharp (1983). Fossil locations and ages from Inley (1961), Clark (1964), Rinehart and Ross (1964), Huber and Rinehart (1965), Douglas (1967), Jones and Moore (1973), Schweickert and others (1977), Saleeby and others (1978), Brook and others (1978), J. H. Stewart (oral commun., 1978), Busby Spore and others (1980), Kistler and Nabelek (1980), Moore and Foster (1980), and Nabelek (1981).

EXPLANATION

Kmv Metavolcanic rocks (Cretaceous).
Metamorphosed andesite to rhyolite flows, tuff, and breccia

+ Granitic rocks (Mesozoic)

FOOTHILLS TERRANE

fs Slate, metagraywacke, metatuff, and metabreccia (Middle and Late Jurassic)
fv Metavolcanic rocks (Early and Middle Jurassic). Predominantly metabasalt flows, pillow lava, and breccia
fu Ultramafic and mafic igneous rocks (pre-Middle Jurassic)

MERCED RIVER TERRANE

ma Quartzite, marble, calc-silicate granulites, and minor argillite (Carboniferous and Permian). Includes part of the Calaveras Formation
mv Metavolcanic rocks (Pennsylvanian and Permian). Predominantly metabasalt flows, pillow lava, and breccia
mu Ultramafic and mafic igneous rocks (Pennsylvanian and Permian)

KINGS TERRANE

k Quartzite, slate, marble, metasandstone and metadacite tuff, ash-flow tuff and volcanic breccia (Late Triassic and Early Jurassic)

GODDARD TERRANE

gm Metavolcanic rocks (Jurassic). Predominantly metamorphosed andesite to dacite flows, tuff, ash-flow tuff and breccia

HIGH SIERRA TERRANE

hmv Metavolcanic rocks (Permian and Triassic). Metamorphosed andesite to rhyolite tuff, ash-flow tuff, flows, breccia, and conglomerate
hms Metasedimentary rocks (Carboniferous and Permian). Pelitic hornfels, marble, calc-silicate hornfels, and minor quartzite

OWENS TERRANE

oms Metasedimentary rocks (Cambrian to Silurian?). Metasandstone, pelitic hornfels, and minor marble and calc-silicate hornfels

PALEOZOIC AND MESOZOIC TECTONO-STRATIGRAPHIC TERRANES, CENTRAL AND SOUTHERN SIERRA NEVADA, CALIFORNIA